RUSS OLSON VOLUME 12C

EQUIPMENT

Description

Carbuilding Costs

Sub-divisions Within This Volume

- (Contents of the Entire Binder)

CONTENTS OF ENTIRE BINDER

COST OF CARS.

American Cars 608-626 ✓	
Bodies	2,500.00
4 W.P.Motors	800.00
Freight "	40.00
K-6 Control	257.25
Freight "	6.00
2 Brill Trucks	753.00
Freight "	35.00
National Air Brake	330.00
Misc'l W.& M.	300.00
	5,015.25

T. C. Cars 737-751 ✓	
Cars	2,000.00
4 W.P.Motors	800.00
Freight "	40.00
K-6 Control	257.25
Freight "	6.00
2 Brill Trucks	676.00
Freight "	35.00
National Air Brake	330.00
Misc'l a/c W.P.	50.00
	4,194.25

T. C. Cars 752-757 ✓	
Cars	2,000.00
4 G.E. 67 Motors	2,125.00
Freight "	65.00
2 Brill Trucks	620.00
Freight "	35.00
National Air Brake	330.00
	5,175.00

T. C. Cars 758-772 ✓	
Cars	2,000.00
4 G.E. 67 Motors	2,125.00
Freight "	65.00
2 T.C. Trucks	750.00
National Air Brake	330.00
	5,270.00

T. C. Cars 773-785 ✓ "Stillwater Int."	
Cars	2,000.00
4 G.E. 57 Motors	2,320.00
Freight "	40.00
K-14 Control	363.25
Freight "	6.00
2 T.C.Trucks	750.00
National Air Brake	330.00
	5,809.25

T. C. Cars 786-788 ✓	
Cars	2,000.00
4 G.E. 67 Motors	2,125.00
Freight "	65.00
2 T.C.Trucks	750.00
National Air Brake	330.00
	5,270.00

T. C. Cars 797-816 ✓	
Cars	2,100.00
4 G.E. 67 Motors	2,125.00
Freight "	65.00
2 T.C. Trucks	750.00
National Air	330.00
	5,370.00

T. C. Cars 817-831 ✓	
Cars	2,100.00
4 W.P. Motors	800.00
Freight "	40.00
K-6 Control	257.25
Freight "	6.00
2 T.C.Trucks	750.00
National Air	330.00
Misc'l	50.00
	4,333.25 ✓

COST OF CARS.

T. C. Cars 832-867✓

Cars	2,100.00
4 G.E. 67 Motors	2,125.00
Freight "	65.00
2 Brill Trucks	642.00
Freight "	35.00
National Air	330.00
	5,297.00

Cars 868-899✓ -- 37' Cars

Cars	1,900.00
4 G.E. 67 Motors	2,125.00
Freight - "	65.00
2 Brill Trucks	620.00
Freight "	35.00
National Air	330.00
	5,075.00

T. C. Cars 900-905✓

Cars	2,204.78
4 G.E. 67 Motors	2,125.00
Freight "	65.00
2 Brill Trucks	620.00
Freight "	35.00
National Air Brakes	300.00
	5,349.78

T. C. Cars 906-949✓

Cars	2,204.78
4 G.E. 70 Motors	1,974.70
Freight "	65.00
2 Baldwin #1 Trucks	430.00
Freight "	35.00
National Air	300.00
	5,009.48

T.C. Cars 950-991✓

Cars	2,278.69
4 G.E. 67 Motors	2,070.50
Freight "	65.00
2 Brill Trucks	644.00
Freight "	35.00
National Air	300.00
	5,393.19

Cars 992-1037✓

Cars	2,101.08
4 G.E. 70 Motors	1,974.70
Freight "	65.00
2 Brill Trucks	743.00
Freight	35.00
National Air	235.00
	5,153.78

T. C. Cars 1038-1041✓

Cars	2,101.08
4 G.E. 70 Motors	1,974.70
Freight "	65.00
2 Baldwin #1 Trucks	430.00
Freight	35.00
National Air	235.00
	4,840.78

Cars 1042-1092✓

Cars	2,113.08
4 G.E. 70 Motors	1,974.70
Freight "	65.00
2 Baldwin #1 Trucks	430.00
Freight	35.00
National Air	235.00
	4,852.78

Cars 1093-1107✓

Cars	2,399.92
4 G.E. 70 Motors	1,802.12
Freight "	65.00
2 Baldwin #1 Trucks	430.00
Freight "	35.00
National Air	235.00
	4,967.04

Cars 1112-1123✓ -- "Minnetonka"

Cars	2,732.12
4 G.E. 73 Motors	4,470.40
Freight "	65.00
2 Baldwin #2 Trucks	660.00
National Air	235.00
	8,162.52

COST OF CARS

Cars 1124-1134 ✓

Cars	2,586.00
4 G.E. 70 Motors	1,802.12
Freight "	65.00
2 Baldwin #1 Trucks	430.00
Freight "	35.00
National Air	235.00
	5,153.12

Car 1145-DD ✓ Double Deck –

Car	5,543.59
4 G.E. 73 Motors	4,470.40
Freight "	65.00
2 Baldwin #2 Trucks	660.00
National Air Brakes	235.00
	10,973.99

Cars 1166-1185 ✓

Cars	2,925.73
* 4 G.E. 87 Motors	2,986.50
M Control C-38	
Freight on Motors	65.00
2 #4 Baldwin Trucks	680.00
National Air	235.00
	6,892.23

* 1910 Changed to GE 216. 2291.30 Ea

Cars 1196-1220 ✓

Cars	2,489.30
G.E. 70 Motors	1,802.12
K 28 Control	
Freight on Motors	65.00
2 #3 Baldwin Trucks	500.00
G.E. Air Equip.	245.00
Freight	6.00
	5,107.42

Cars 1260-1265 ✓

Cars	2,620.79
G.E. 73 Motors	4,346.00
C-6 Control	
Freight on Motors	65.00
2 #4 Baldwin Trucks	690.76
G.E. Air Equip.	241.00
Freight	6.00
	7,969.55

Cars 1135-1144 ✓

Cars	2,586.00
4 G.E. 67 Motors	2,070.50
Freight	65.00
2 Baldwin #1 Trucks	430.00
Freight "	35.00
National Air	235.00
	5,421.50

Cars 1146-1165 ✓ "Selby-Lake"

Cars	3,323.39
* 4 G.E. 87 Motors	2,986.50
M Control C-38	
Freight on Motors	65.00
National Air	235.00
2 #4 Baldwin Trucks	680.00
	7,289.89

* changed in 1910 on cars 1146 to 1163 to GE 73. $4470.40 Ea
" " " " " 1164 & 1165 " GE 216 2291.30 "

Cars 1186-1195 ✓

Cars	2,675.03
* 4 G.E. 87 Motors	2,986.50
M Control C-38	
Freight on Motors	65.00
2 #4 Baldwin Trucks	680.00
National Air	235.00
	6,641.53

* 1910 Changed to GE 216. 2291.30 Ea

Cars 1221-1259 ✓

Cars	2,583.71
G.E. 70 Motors	1,802.12
K 28 Control	
Freight on Motors	65.00
2 #3 Baldwin Trucks	510.76
G.E. Air Equip.	241.00
Freight	6.00
	5,208.59

Cars 1266-1290

Cars	2,464.55
* G.E. 70 Motors	1,802.12
C-6 Control	
Freight on Motors	65.00
2 #3 Baldwin Trucks	510.76
G.E. Air Equip.	241.00
Freight	[illegible]
	5,[illegible]

* 1218 to 1290 Changed in 1910 to GE [illegible]

TO APRIL 15, 1908.

ORIGINAL COSTS OF CARS
WITH
CHANGES SINCE BUILT NOTED.

Cars 1291-1309

Car Body & Wire & Mount,	2,539.66
4 G. E. 213 Motors K37 Control	2,447.50
Freight on " "	65.00
2 #5 Trucks	469.04
G. E. CP 21 Air Brakes	241.00
Freight on "	6.00
	5,768.20

Cars 1310-1334

Car Body & Wire & Mount	2,827.11
4 GE 213 Motors K37 Control	2,447.50
Freight on "	65.00
2 #5 Trucks	469.04
G.E.CP21 Air Brakes	241.00
Freight on "	6.00
	6,055.65

Cars 1335-1359

Car Body & Wire & Mount	2,493.69
4 G.E. 213 Motors K37 Control	2,447.50
Freight on "	65.00
2 #5 Trucks	469.04
G.E. CP 21 Air Brakes	241.00
Freight on "	6.00
	5,722.23

Cars 1360-1375

Car Body, Wire & Mount	2,486.93
4 G.E. 213 Motors K37 Control	2,447.50
Freight on "	65.00
2 #5 Trucks	488.32
G.E. CP 21 Air Brakes	241.00
Freight on "	6.00
	5,734.75

Cars 1376-1379

Car Body & Wire & Mount	2,486.93
4 G.E.216 Motors K37 Control	2,291.30
Freight on "	65.00
2 #5 Trucks	488.32
G.E. CP 21 Air Brakes	241.00
Freight on "	6.00
	5,578.55

Cars 1380-1404

Car Body & Wire & Mount	2,394.07
4 G.E.216 Motors K37 Control	2,291.30
Freight	65.00
2 #6 Trucks	489.46
G.E. CP 21 Air Brakes	241.00
Freight on "	6.00
	5,486.83

Cars 1405-1424

Car Body & Wire & Mount	2,379.38
4 G.E. 216 Motors K37 Control	2,291.30
Freight on Motors	65.00
2 #6 Trucks	491.84
G.E. CP 21 Air Brakes	241.00
Freight on "	6.00
	5,474.52

144 1775 47
4958

To December 31st, 1910.

COST OF CARS
COMMENTS

To April 15, 1908

Cars 608-626, 737-788, 797-899: "Bodies" or "Cars" costs appear to be estimated. The Construction Journals for 1900-1901 mention lack of detailed information available.
608-626 "Misc'l W.&M.": the latter means Wire & Mount. "Cars" means Car Bodies. The cost figures include the cost of wiring the bodies and mounting them on the trucks.

Cars 752-772, 786-788, 797-816, 832-899, 900-905, 950-991, 1135-1144: the cost of 4 G.E. 67 motors includes K-6 control.
Cars 906-949, 992-1107, 1124-1134: the cost of 4 G.E. 70 motors includes K-28 control.
Cars 1112-1123, 1145: the cost of 4 G.E. 73 motors includes C-6 (Type M) control.

608-626	Brill Old trucks	
737-751	Brill 02 trucks	
752-757	Brill 02 trucks	
758-772	758-761 are listed in 1905 and 1909 with Brill 02 trucks	
832-867	Brill 01 trucks	
868-899	Brill 02 trucks	
900-905	Brill 02 trucks	905 is listed in 1905 and 1909 with BLW1/4GE70/K28
950-991	Brill 03 trucks	950 is listed in 1909 with BLW 1 trucks
992-1037	Brill 04 trucks	
1092	Does not appear to include the additional cost of the double deck work.	
1135-1144	Were listed in 1905 with BLW1/4GE70/K28A. They were listed in 1909 as: 1135-1142 BLW1/4GE67/K28A and 1143-1144 BLW5/4GE70/K28A.	
1145-DD	plus the pencil notation "Double Deck": does this mean the car still had the upper deck?	

A problem now appears with BLW truck designations, and subsequently with TC truck designations. I will use the correct designations in the following comments.

1146-1195 BLW3 trucks. The 1910 changes actually occurred during 1909 according to the Construction Journals.
The revised cost figures would be:

1146-1163	$8,728.79	GE73/C-6
1164-1165	$6,529.69	GE216/K37
1166-1185	$6,132.03	GE216/K37
1186-1195	$5,881.33	GE216/K37

1196-1290 BLW5 trucks. 1266-1290 should be K28 control.
1288-1290 change actually occurred during 1909. The original cost figure reads $5,089.43 with the revised cost figure at $5,734.81 GE213/K37A

To December 31, 1910

1291-1309	BLW5 trucks	
1310-1369	TC5 trucks	
1370-1379	TC6 trucks	1370-1375 had GE216 motors according to the 1909 list.
1380-1424	TC6 trucks	

September 29, 1915

1425-1481	TC6 trucks
1482-1556	TC8 trucks
1557-1563, 1567-1581, DSR 242-254	TC8 trucks
1564-1566, 1582-1635	TC8 trucks/4GE203/K37

Details are correct from here onward.

Service Equipment

Motor Cost includes Controller.

61	Brill 01 trucks. Cost is for Brill 02 trucks.
64-69	Brill 01 trucks. Cost is for Brill 02 trucks.
72	Twin City trucks

1910 Revisions

1146-1163	$7289.89
GE87	(3051.50)
GE73	4490.50
	$8728.79

1164-1165	$7289.89
GE87	(3051.50)
GE216	2291.30
	$6529.69

1166-1185	$6892.23
GE87	(3051.50)
GE216	2291.30
	$6132.03

1186-1195	$6641.53
GE87	(3051.50)
GE216	2291.30
	$5881.33

1288-1290	$5089.43
GE70	(1867.12)
GE213	2512.50
	5734.81

BASICS
40135

CAR COSTS

Cars 1425 - 1449

Car Body & Wire & Mount	2523.55
4 GE-216 Motors K-37 Control	2291.30
Freight "	65.00
2 #5 Trucks	476.46
GE CP-21 Air Brakes	241.00
Freight " "	6.00
	5603.31

Cars 1450 - 1481

Car Body & Wire & Mount	2250.92
4 GE-216 Motors K-37 Control	2291.30
Freight "	65.00
2 #5 Trucks (incl. Wheels and axles)	639.46
GE CP-21 Air Brakes	241.00
Freight " "	6.00
	5493.68

Cars 1482 - 1506 (S.W.O. 5164-5-6)

Car Body & Wire & Mount	2386.59
4 GE-216 Motors K-37 Control	1910.00
Freight "	65.00
2 #5 Trucks (incl.wheels and axles)	627.48
GE-CP-27 Air Brakes	213.75
Freight " "	6.00
	5208.82

Cars 1507 - 1531 (S.W.O.5199-5200-1)

Car Body & Wire & Mount	2271.17
4 GE-216 Motors K-37 Control	1910.00
Freight "	65.00
2 #5 Trucks (incl. wheels and axles)	627.48
GE CP-27 Air Brakes	213.75
Freight " "	6.00
	5093.40

Cars 1532 - 1556
(S.W.O. 5223-4-5)

Car Body & Wire & Mount	2226.90
4 GE-216 Motors K-37 Control	1910.00
Freight "	65.00
2 #5 Trucks (Incl. Wheels and axles)	627.48
GE CP-27 Air Brakes	213.75
Freight " "	6.00
	5049.13

ORIGINAL COST OF CARS
~~WITH~~
~~CHANGES SINCE BUILT NOTES.~~

Cars 1557 -1563 & 1567 - 1581
& 242 -254 for Duluth
(S.W.O. 5268-9-70)

Car Body	2229.52
4 GE-216 Motors K-~~27~~37 Control	1910.00
Freight "	65.00
2 #5 Trucks (Incl. wheels & axles)	627.48
GE CP-27 Air Brakes	213.75
Freight " "	6.00
	5051.75

Cars 1564-65-66 &
1582 to 1635
(S.W.O. 5452-3-4)

Car Body & Wire & Mount	2452.78
4 GE-213 Motors K-37 Control	1824.40
Freight "	65.00
4 Gear Cases	60.52
2 #8 Trucks (Incl. wheels & axles)	736.80
GE CP-27 Air Brakes	193.00
Freight " "	6.00
	5338.50

Cars 1636 - 1685
(S.W.O. 5687-8-9)

Car Body & Wire & Mount	2497.18
4 GE-203 Motors K-37 Control	1824.40
Freight "	65.00
4 Gear Cases	49.52
1 Set Scrapers	18.56
2 #8 Trucks (Incl. wheels & axles)	808.34
GE CP-27 Air Brakes	193.00
Freight " "	6.00
	5462.00

Cars 1686-1775 &
257-262 for Duluth
(S.W.O. 5833-4-5)

Car Body & Wire & Mount	2292.04
2 #9 Trucks (Incl. Wheels & Axles)	676.04
4 Gear Cases	36.96
1 Set Scrapers	14.43
4 GE-200 Motors K-43 Control	1675.00
Freight "	65.00
GE CP-25 Air Brakes	193.00
Freight " "	6.00
	4958.47

September 29th, 1915.

Thew Electric Shovel #57
(SWO #5901)

5/8 Yard Shovel	4,000.00
reight on Shovel	110.05
Cost of making ready for service	946.87
	5,056.92

Tank Sprinkling Car #59
(SWO #6185)

Car Body	2,592.41
4 GE-57 Motors	2,320.00
reight on Motors	65.00
2 #4 Baldwin Trucks	680.00
GE CP-25 Air Brakes	193.00
reight on Air Brakes	6.00
	5,856.41

Thew Electric Shovel #60
(SWO #6286)

5/8 Yard Shovel	4,000.00
reight on Shovel	125.73
ost of making ready for service	262.62
	4,388.35

Cupola Car #61
(SWO #6209)

ody, including Blower and Motor	2,797.16
4 GE-67 Motors	2,125.00
reight on Motors	65.00
2 Brill Trucks	655.00
hristenson Air Brakes	235.00
	5,877.16

2 Refuse Cars, Nos. 62 and 63.
(SWO #6223)

Body	1,050.39
4 GE-70 Motors	1,802.12
Freight on Motors	65.00
2- #1 Baldwin Trucks	465.00
Christenson Air Brakes	235.00
	3,617.51

6 Refuse Cars, Nos. 64 to 69.
(SWO #6223)

Body	1,050.39
4 W.P. Motors	800.00
Freight on Motors	40.00
2 Brill Trucks	655.00
Christenson Air Brakes	235.00
	2,780.39

Sand Blast Car #70
(SWO #6251)

Body	724.54
1 Bemis Truck	232.50
	957.04

Cars 1776 to 1792 and 2 Cars for Anoka Ry.
(SWO #6250-1-2).

Car Body & Wire & Mount	2,325.08
2 #9 Trucks (including wheels and axles)	628.78
4 Gear Cases	31.72
1 Set Scrapers	16.42
4 GE-200 Motors, K-43 Control	1,675.00
Freight on Motors	44.00
GE CP-25 Air Brakes	193.00
Freight on Air Brakes	6.00
	4,920.00

2-29-16.

Cars 1793 to 1851

And 8 Cars for Duluth St. Ry. Co.
(SWO 6742-43-44 April 1916)

Car Body, Wire and Mount	2,617.28
2 - #9 Trucks (including wheels & Axles)	820.02
4 - Gear Cases	33.08
1 Set Scrapers	16.11
4 - G.E. 200 Motors, and K 43 Controllers	1,945.00
Freight on Motors	44.00
G.E. C.P. 25 Air Brakes	208.00
Freight on " "	6.00
	$5,689.49

Cars 1852 to 1854

And 9 cars to replace 8 sold to Duluth St. Ry. Co.
and 1 to Mpls. Anoka & Cuyuna Range R.R.Co.
(SWO 6790, 91 and 92)

Car Body, wire and mount	2,744.59
2 #9 Trucks (including wheels and axles)	879.54
4 Gear Cases	46.52
1 Set Scrapers	19.16
4 G.E. 200 Motors, K-43 Controller	2,375.00
Freight on Motors	44.00
G.E., C.P. 25 Air Brakes	245.00
Freight on Air Brakes	6.00
	$6,359.81

10-29-1919.

FORM 43

TWIN CITY LINES

MINNEAPOLIS, MINN.

#29-32

July 21, 1909.

COST OF SNOW PLOW

1	Body, Wings, Etc.	$3,265.29
3	Extra Engineer Valves	37.50
1	" K6 Controller	140.00
2	10" Cylinders	32.76
1	Extra Lighting Arrester	3.00
1	GE 67 Motor, with gear & case(	
1	Extra K11 Controller	(650.00
	Trucks	500.00
	Air Brakes	241.00
		$4,869.55

The labor cost of installing all extra equipment and the regular car equipment are included in the item of $3,265.29.

The price on the GE 67 Motor, with gear and case, and the K11 Controller is an approximation which is a proportion of the equipment. We have never purchased in this manner and for that reason the price is given as above stated.

The Wheels are also included in the figure of $3,265.29.

This is the cost of one Snow Plow built on the last order given for Snow Plow.

3 Snow Plows #36-37-38

Car Body, etc.	3035.46
3 Extra Engineer's Valves	37.50
2 " 10" Cylinders	32.76
1 " C-6 Master Controller	141.50
4 GE-73 Motors & D.B. Contactor with C-6 Master Controllers	4346.00
Freight on "	65.00
G.E. CP-21 Air Brakes	241.00
Freight on "	6.00
2 #4 Baldwin Trucks	690.36
	$8595.58

COST OF SWITCH CAR BUILT FOR
THE
UNIVERSITY OF MINNESOTA
1915

COST OF CAR BODY COMPLETE		2329.43
2 SECOND HAND TRUCKS	904.52	
4 " " GE67 MOTORS	1740.00	
ONE " " SET AIR BRAKES	199.00	
SECOND HAND EQUIPMENT CHARGED AT COST NEW		2843.52
TOTAL COST OF CAR		$5172.95
CAR BILLED TO U OF M AT		$4500.00

NOTE-

CHARGED U OF M $4500.00 FOR CAR, AND BODY COST 2329.43. WHICH WOULD ALLOW US 2170.57 FOR TRUCKS, MOTORS, ETC. THAT COST NEW 2843.52

SM 11/29/15

CARS 1686 - 1775 and 257 - 262 BUILT FOR DULUTH

96 Cars

	Material	Labor	O.H. Added	Total Cost
5833 Build Body	544.81	467.86	236.64	1,249.31
5834 Paint "	59.51	66.16	26.59	152.26
5835 Wire and Mount	58.61	12.31	5.66	76.58
Stock Order Build Car Frames	164.16	64.41	52.99	281.56
" " " " Steps	6.54	8.25	4.49	19.28
" " " Sash	117.28	19.97	7.99	145.24
" " " Gates	6.03	9.09	5.49	20.61
" " " Arc Head Light	13.51	7.73	6.25	27.49
" " " Doors	10.31	4.05	1.80	16.16
" " " Seats	113.07	41.67	19.09	173.83
" " " Heaters	16.47	11.94	10.10	38.51
" " " Curtains	52.33	5.43	2.21	59.97
" " " Storm Sash	12.68	6.81	2.73	22.22
" " " Screens	1.48	5.28	2.26	9.02
" " " Trucks	405.42	108.04	98.54	612.00
" " " Axels	30.20	17.21	16.63	64.04
" " " Scrapers	7.20	3.83	3.40	14.43
" " " Gear Cases	12.85	14.36	9.75	36.96
Motors, including Freight	1,740.00			1,740.00
Air Brakes, including freight	199.00			199.00
	3,571.46	874.40	512.61	4,958.47

The Average percent for O. H. - All Shops 58.4

The Amount added for O.H. Expenses was credited, as follows:-

To Operating A/c 29-38 & 39 (Superintendence & Shop Expense)	314.64
To Shop Tool Depreciation	39.59
To Way & Structure Depreciation (For Buildings)	29.99
To Interest on Funded Debt	83.36
To Taxes Accrued	17.22
To Power Other Operations, Cr.	20.83
To Injuries and Damages	6.98
	512.61

MULTIPLE UNIT TRAIN

Cars 2000 - ~~2000A~~ 2001

(S.W.O. 6654, 6865, 6866, & 6857)

Plans	2,689.88
Car body and wire and mount	8,938.03
8 G.E. 258 Motors with Rheostats	2,853.88
Freight on " & "	39.46
1 K-43 Controller,	225.00
4 #10 Trucks (including wheels and axles)	3,724.53
1 G.E., C. P. 27 Air Brake equipment	193.00
Freight on " " "	6.00
1 Extra Air Brake cylinder	13.80
1 " " " tank	6.75
	18,690.33

5-27-1919.

BASICS
40135

COST OF WIRE CAR NO. 72

(S.W.O. #6982)

Body	1,720.71
2 Trucks	750.00
4 GE 57 Motors, K-14 Control	2,320.00
Christensen Air Brakes	235.00
	$5,025.71

THEW ELECTRIC SHOVEL #73

(S.W.O. #7067)

Shovel	5,100.00
Freight	191.61
Cost of making ready for service	176.34
	$5,467.95

CRANE CAR NO. 74

(S.W.O. #7068)

Brown Hoist Crane	6,145.00
Freight	204.45
Cost of making ready for service	232.15
	$6,581.60

6-6-1918.

9 SNOW PLOWS, 75 to 82, Incl.

and One for Duluth St. Ry. Co.

(S.W.O. #7185 - 6)

Body	3,725.84
2 Extra Engineer's valves	25.00
2 " 10" Cylinders	32.70
1 " Air Reservoir	12.00
4 G.E. 73 Motors	4,346.00
Freight	65.00
G.E., C.P. 27 Air Brakes	193.00
Freight	6.00
2 #4 Baldwin Trucks	690.36
	$9,095.96

The plow sent to Duluth is the only one which is fully equipped with electric windlass for operating wings. There will be additional cost on these plows when this is installed.

Truck and Motor equipment, etc. on above plows is used by Suburban cars in summer and snow plows in winter. This applies to all plows.

6-6-1918.

COST OF 2-CAR TRAIN #2002-3

	Labor	Material	Total
SWO 8106, Engineering, tools, etc.	864.30	22.63	886.93
SWO 8107, Bodies	10,343.06	4,480.78	14,823.84
SWO 8108, Frames	2,805.77	574.66	3,380.43
SWO 8109, Wire and Mount	1,132.14	339.08	1,471.22
	15,145.27	5,417.15	20,562.42
8 G. E., 264 Motors with rheostats			5,260.00
Freight on Motors			164.71
4 #11 trucks (including wheels and axles)			2,890.24
1 C. P. 25 Air Brake Equipment			245.00
Freight on Air Brake Equipment			6.00
1 Extra Air Brake Cylinder			13.80
2 Fare Boxes			170.00
			29,312.17

In addition to the above equipment, the following items were included in blanket payment to G.E.Co. Prices are estimated, but actual prices will be obtained:

1 K-43 controller	175.00
8 Gears and Pinions	128.00
8 Gear Cases	80.00
	$29,695.17.
Additional Cost account of Changes made, See next page for detail	10,125.38
	$39,820.55

6-2-22.

ADDITIONAL COST OF 2-CAR TRAIN #2002-3

		Labor	Material	Total
SWO 8287	Change location of Resistance on Car No. 2002	331.67	43.50	375.17
SWO 8606	Changes in control for use singly, or as train	2,768.97	2,840.44	5,609.41
⊗ SWO 8607	Equip 2 trucks with roller bearings	1,486.02	983.62	2,469.64
SWO 8618	Electric Heaters	190.28	22.64	212.92
⊗ SWO 8658	Equip 2 trucks with roller bearings	941.61	265.63	1,207.24
		5,718.55	4,155.83	9,874.38
	1 CP Air Brake Equipment			245.00
	Freight on " "			6.00
				10,125.38

⊗ These two orders should be combined. All of the bearings were charged to 8607

In making changes for using cars singly, or as train, K-43 Controller $175.00 and extra cylinder $13.80 shown on original cost of train, were discarded.

The cost of controllers now in use are part of the material cost on SWO 8606.

4-9-24.

Trucks 1-1-16

Both Drum and Capellen have the Brill trucks mis-identified.
This is the actual identification:

1) Brill (old): Brill 27-A1 purchased 1899

2) Twin City: My guess is early Brill truck ~~27-E~~ frames purchased 1900; modified and fitted with wheels and axles by TCRT shops. Work orders covered cost of arch beams and fitting wheels and axles.

3) Brill 01, Brill 02, Brill 03: Brill 27-A2 purchased in 1901, 1902, and 1903.

Work orders covered purchase of McCord Journal Boxes for Brill Trucks.
Truck Frames:
1902: 53 sets, for 900-949 Cost $654 per set without wheels and axles.
1903: 35 sets, for 950-991 Cost $667 to $755 per set without wheels and axles.

4) Brill 04: Brill 27-E2 purchased 1904: (Brill 27-A2 purch. for DSR cars.)
50 sets, for 992-1041 Cost $784 per set without wheels and axles.

Drum and Cappelen terminology:

Twin City Brill 27E2 = Twin City
Brill 27 = Brill 01-02-03
Brill 27A1 = Brill 04

National® Brand 45-604 Eye-Ease®
45-304 2 - Pack
Made in USA

Trucks

1-1-16

One Pair of Trucks with One Pair of TCL Scrapers

	Initials	Date
Prepared By		
Approved By		

Description		1 Wheels		2 Cost per a L Drum $	3 Cost per Coppelen $	4 Weight of One Set Lb
Brill 27A-1	my estimate for Brill (old))	33"	Cast	675	842	13714
Twin City	"Twin City Brill 27E-2"	34"	Steel	860	1000	13814
Brill 27A-2	"Brill 27" (Brill 01-02-03)	34"	Steel	735	902	13714
Brill 27E-2	"Brill 27A-1" (Brill 04)	34"	Steel	765	1066	14214
Baldwin #1		34"	Steel	910	910	13014
Baldwin #2		34"	Steel	1000	1050	16794
Baldwin #3 and #4		34"	Steel	1000	1050	16794
Baldwin #5		34"	Steel	910	910	13014
Twin City #5		34"	Steel	—	850	13014
Twin City #6		34"	Steel	900	850	12814
Twin City #7		33"	Cast	830	770	12614
Twin City #7		34"	Steel	890	830	12614
Twin City #8		34"	Steel	870	800	12214
Twin City #9		34"	Steel	830	800	11414
Bemis	No Scrapers	33"	Cast	520	460	8400
Bemis	|	34"	Steel	—	580	8400
Bemis Single	|	33"	Cast	225	225	4500
Bemis Single	|	34"	Steel	—	255	4500

For one pair of Trucks without Scrapers, deduct 1650 (Service Equipment)

34" Steel Wheels are $60 per set ($30 per Truck) additional compared to 33" Cast (Chilled) Wheels

Twin City #11 original Cost in 1921 1445

Truck assembly drawing for Twin City #9 has written in pencil: 10100 #

National® Brand 45-604 Eye-Ease® 45-304 2 - Pack Made in USA

Motors and Controllers

1-1-16

	Initials	Date
Prepared By		
Approved By		

		Combination	1 Purchase Cost FOB Mpls $	2 Total Weight Lbs	3 1911 Elect Ry Dictionary or 1915 Elect. Ry.	4 Handbook Lbs
1		4 GE W.P./K-6	1607	12504		
2		4 GE W.P./K-14	1818	11850		
3		2 GE W.P./K-11	840	6485		
4		4 GE 67/K-6	2140	10834		
5		4 GE 67/2 K-6 Dbl End	2306	11434		
6		4 GE 67/K-28-A; K-28-B	2140	10774	2450 × 4 K-28	9800 1460
7						11260
8		4 GE 67/K-14	2305	11275		
9		2 GE 67/K-11	1150	6200	2450 × 2 K-11	4900 1050
10						5950
11	GE 57A	4 GE 57/K-14	2875	13000	3030 × 4 K-14	12120 2265
12						14385
13		4 GE 57/K-6	2700	12785		
14		4 GE 57/K-37	2685	12779		
15		4 GE 57/C-6, Type M	3125	14650		
16		4 GE 70/K-6	2140	11360		
17		4 GE 70/K-28-A; K-28-B	2140	11300	2750 × 4 K-28	11000 1460
18						12460
19		4 GE 70/K-37; K-37-A; K-37-C	2115	11580		
20	GE 73C	4 GE 73/C-6, Type M	4600	19450	4100 × 4 C-6, M	16400 3120
21						19520
22		4 GE 73/2 C-6, Type M (Dbl End) (Plow-Sweeper)	4775	20215		
23		4 GE 203 G/K-37-C	2250	11580		
24		4 GE 203 G/K-43-F2	2250	11340		
25		4 GE 203 O/K-37; K-37-C	2250	11580		
26		4 GE 203 O/K-43-F2	2250	11340		
27		4 GE 213/K-37; K-37-A; K-37-C	2250	12360		
28		4 GE 213/K-43-F2	2250	12120		
29		4 GE 216/K-37; K-37-A; K-37-C	2250	12360		
30		4 GE 216/K-28-B	2275 ?	?		
31		4 GE 216/K-43-F2	2250	12120		
32		4 GE 200 H/K-37-C	1950	11220		
33		4 GE 200 H/K-43-F2	1950	9980		
34		4 GE 87/C-6, Type M			3380 × 4 C-6	13520 2625
35						16145
36		4 GE 258/K-43 (2000-01)	1597	?		
37		8 GE 264/K-43 (2002-03)	2904	?		
38		2 GE 57/K-11			3030 × 2 K-11	6060 1050
39						7110
40						

ERJ 1911 GE 203 "Light Weight" Motor 2100 "complete" (does this include gear & case?)

POLY-VU AVERY™

National® Brand 45-604 Eye-Ease® 45-304 2-Pack Made in USA

Air Brake Equipment

1-1-16

		Initials	Date
	Prepared By		
	Approved By		

		1 Comp. & Equip. Only Sgl. End $	2 Dbl. End $	3 Complete Sgl. End $	4 Dbl. End $
	Christensen / National AA-1	265 —	275 —	308 25	318 25
	Christensen / National AA-2	265 —	—	308 25	—
	Allis-Chalmers AA-6	301 —	—	344 25	—
	Gen. Elec. CP-21	250 —	260 —	293 25	303 25
Comp. 500 lbs.	Gen. Elec. CP-25-C	200 —	—	243 25	—
Comp. 650 lbs.	Gen. Elec. CP-27	225 —	—	268 25	—
	Gen. Elec. Trailer Equipment	—	—	25 —	—

National® Brand 45-603 45-303 Eye-Ease® 2 - Pack Made in USA

Car Data Sheets
D. J. Strouse
5-27-16

-1-

	Initials	Date
Prepared By		
Approved By		

	Car #'s	Equipment	1	2	3 Cost Per Car
1	608 - 626	Brill 00/4WP50/K-6			5015 25
2	737 - 751	Brill 02/4WP50/K-6			4194 25
3	752 - 762	Brill 02/46E67/K-6		752-757 758-762	5175 — 5270 —
4	763 - 780	TC/46E67/K-6		763-772 773-780	5270 — 5809 25
5	781	TC/46E57/K-37 (Was 773-785)			5809 25
6	786 - 788	TC/46E67/K-6		786-788 797-805	5270 —
7	797 - 816	TC/46E67/K-6 (813 DE = same cost)		806-816	5370 —
8	817 - 831	TC/4WP50/K-6			4333 25
9	832 - 867	Brill 01/46E67/K-6			5297 —
10	868 - 899	Brill 02/46E67/K-6 (896-899 DE = same cost)			5075 —
11	900 - 904	Brill 02/46E67/K-6			5349 78
12	905 - 941	Brill 03/46E67/K-6 appears to be	See Roster for #'s " " " "	May - Aug Sep - Nov	5349 78 5009 48
13	942 - 946	Brill /46E67/K-6			5009 48
14	947 - 951	BLW1/46E67/K-6		947-949 950-951	5009 48 5393 19
15	952 - 954	BLW1/46E67/K-6			5393 19
16	955 - 975	BLW1/46E70/K-28			5393 19
17	981 - 991				
18	976 - 980	Brill 02/46E67/K-6			5393 19
19	992 - 1041	Brill 04/46E70/K-28			5153 78
20	1042 - 1087	BLW1/46E70/K-28			4852 78
21	1088 - 1107	BLW1/46E70/K-28		1088-1092 1093-1107	4852 78 4967 04
22	1112 - 1123	BLW2/46E73/C-6			8162 52
23	1124 - 1142	BLW1/46E70/K-28-A		1124-1134 1135-1142	5132 12 5421 50
24	1143 - 1144	BLW5/46E70/K-28			5421 50
25	1145	BLW2/46E73/C-6			10973 99
26	1146 - 1163	BLW4/46E73/C-6			7289 89
27	1164 - 1168	BLW1/46E70/K-28		1164-1165 1166-1168	7289 89 6892 93
28	1169 - 1188	BLW4/6E216/K-37		1169-1185 1186-1188	6892 93 6641 53
29	1189 - 1192	BLW5/6E70/K-28-B		1189-1192	6641 53
30	1198 - 1220			1198-1220	5107 42
31	1193 - 1197	BLW1/46E70/K-28		1193-1195 1196-1197	6641 53 5107 42
32	1221 - 1254	BLW5/46E70/K-28-B			5208 89
33	1255 - 1265	BLW4/46E73/C-6			7969 55
34	1266 - 1288	BLW5/46E70/K-28-B			5089 43
35	1289 - 1290	BLW5/46E213/K-37			5089 43
36	1291 - 1309	BLW5/46E213/K-37-A			5768 30
37	1310 - 1359	TC5/46E213/K-37-A		1310-1334 1335-1359	6055 65 5722 23
38	1360 - 1370	TC5/46E213/K-37			5734 75
39	1371 - 1375	BLW4/46E216/K-37			5734 75
40	1376 - 1379	TC5/46E216/K-37			5578 56

AVERY® PV119ED

Car Data Sheets
D. J. Strouse
5-27-16

-2-

	Initials	Date
Prepared By		
Approved By		

Car #'s	Equipment	1	2	3 Cost Per Car
1380-1429	TC6/46E216/K-37		1380-1404 1405-1429	5486 83 5474 52
1430-1479	TC6/46E216/K-37			Not Listed
1480-1481	TC8/46E216/K-37			
1482-1531	TC8/46E216/K-37-C			
1532-1581	TC8/46E216/K-37-C	1578-1581 also on separate sheet		
1578-1581	TC8/46E203/K-37-C	separate sheet		
1582-1619	TC8/46E203/K-37-C			
1621-1631				
1620	TC8/46E200/K-43-E			
1632-1681	TC8/46E203/K-37			
1682-1685	TC8/46E203/K-37			
1686-1735	TC9/46E200/K-43-F2			4958 47
1736-1785	TC9/46E200/K-43-F2			4958 47
1786-1835	TC9/46E200/K-43-F2			Not Listed
1786-1792	TC9/46E200/K-43-F2	This appears to be a separate data sheet for MACR 1786-1787 and DSR 1st 1789-1792		
2000-2000A	TC10/86E258/K-43			Not Listed
Private	Brill 01/46E57/C-6			Est 8000 —
U of M Switch Car	TC4/46E57/K-37		Billed to U of M @	4500 —
34	BLW4/46E57/K-14		Delivery Car Body	2684 66
	Rebuilt as Baggage Car; motors & trucks changed from original			294 44
43-45	TC7/46E216/K-37			6972 31
58	TCWC/46E67/K-28	Cupola Car		5909 86
61	Sheet missing			
20	TC7/46E57/K-6		Body Cost	2459 48
21	BLW4/46E216/K-37			Not listed
50	TC7/46E216/K-37			8036 82
7-10	TCWC/4WP50/K-6		1-07	Est. 1237 63
11-12	TCWC/46E57/K-14		1-07	Est 1237 63
13-16	TCWC/4WP50/K-6		1-07	Est 1237 63
17-19	TCWC/46E70/K-28			3420 89
46-48	TCWC/46E216/K-37			3937 29
51-56	TC7/46E216/K-37			Not listed
A-13	Barnis/4WP50/K-6			
A-14	Barnis/4WP50/K-14			
62-63	BLW1/46E70/K-6			
49	TCWC/46E67/K-6			
22	BLW4/46E73/C-6			5731 50

National® Brand 45-603 Eye-Ease® 45-303 2 - Pack Made in USA

Car Data Sheets

D. J. Strause

5-27-16

-3-

	Initials	Date
Prepared By		
Approved By		

Car #'s	Equipment	1	2	Cost Per Car
23-24	BLW4/46E73/C-6			9640 38
25	Bemis/46E57/K-14		1-07	Est 800 —
29-32	BLW4/46E73/C-6			9442 91
36-37	BLW4/46E73/C-6			8595 58
38	BLW4/46E73/C-6			Not listed
3-5	TC/46E57/K-14		Est Est Est	3 1098 — 4 1227 68 5 4472 04
72	TC/46E57/K-14 (Built 5-1-17)			72 not listed
33	TC/46E67/K-6			4174 20
26-28	Peckham/2WP50/K-11			No record
35	Special/26E67/K-11			5963 76
70	Bemis /—/—			Not listed
6	Arch Bar/—/—			1250 —
57,60,73	—/1 GE CVC/ Starting Rheostat			Not listed
59	BLW4/46E57/K-37			Not listed

National® Brand 45-606 Eye-Ease® 45-306 2-Pack Made in USA

Passenger Equipment

Original Cost Per Car

1-1-22

	Initials	Date
Prepared By		
Approved By		

Car No's.	Equipment		Body	Trucks	Air Brake Equipment	Electrical Equipment	Total Cost
737-40	Brill 02-WP-K6-Christensen		1934 27	866 56	329 99	1755 28	4886 10
741-42	-67-		1867 29	866 56	329 99	2233 49	5297 33
743-47	-WP-		1867 29	866 56	329 99	1745 28	4809 12
748	-67-		1867 29	866 56	329 99	2233 49	5297 33
749	-WP-		1867 29	866 56	329 99	1745 28	4809 12
750-61	-67-		1867 29	866 56	329 99	2233 49	5297 33
762-72	TC-67-K6-Christensen (AA1)		1867 29	782 65	329 99	2301 72	5281 65
773-85	TC-57-K37-Christensen (AA2)		1944 27	782 65	329 99	2911 81	5968 72
786-88	TC-67-K6						Sold 1918
797-99	TC-67-K6						Sold 1918
800-12 814-15	TC-67-K6-Christensen (AA1)		1631 27	782 65	329 99	2301 72	5045 63
816			1769 19	782 65	329 99	2301 72	5183 55
813 DE	TC-67-2K6-Christensen (AA1)		1631 27	782 65	329 99	2622 89	5366 80
817-31	TC-WP-K6-Christensen		Est. 1631 27	Est 782 65	Est 329 99	Est 1745 28	Est. 4489 19
832-42	Brill 01-67-K6-Christensen (AA1)		1631 26	866 56	329 99	2233 49	5061 30
843			1626 06	866 56	329 99	2301 72	5124 33
844-46			Est 1653 76	866 56	329 99	Est. 2326 19	5176 50
847 DE	-2K6-		1653 76	866 56	329 99	2763 76	5614 07
848-53	-K6-		1653 76	866 56	329 99	2233 49	5083 80
854-67			1653 76	866 56	329 99	2442 59	5292 90
870-74	Brill 02-67-K6-Christensen (AA1)		2021 15	866 56	257 34	2442 59	5587 64
DE 875-76	-2K6-		2048 85	866 56	257 34	2763 76	5936 51
877-88	-K6-		2048 85	866 56	257 34	2442 59	5615 34
889-95			1945 –	866 56	257 34	2442 59	5511 49
DE 896-99	-2K6-		1917 30	866 56	257 34	2763 76	5804 96
900-04	Brill 02-67-K6-Christensen (AA2)		2434 84	858 04	333 18	2442 59	6068 65
905-07	Brill 03-		2361 22	891 76	333 18	2442 59	6028 75
908-24			2361 22	891 76	333 18	2598 79	6184 95
925-41			2154 77	891 76	333 18	2598 79	5978 50
942-43	Brill 02-		2228 39	858 04	333 18	2868 79	6288 40
944	BLW1-70-K6-Christensen (AA2)		2228 39	705 93	333 18	2402 –	5669 50
945-46	Brill 02-67-K6-		2228 39	858 04	333 18	2457 92	5877 53
947-49	BLW1-67-K6-		2228 39	756 38	333 18	2457 92	5775 87
950	-K28-	(AA1)	2450 56	756 38	316 98	2301 72	5825 64
951			2362 06	756 38	316 98	2301 72	5737 14
952	BLW1-67-K28-		2360 12	756 38	316 98	2301 72	5735 20
	Rebuilt 1916 to Trailer 1590A/225	12-31-19	?	?	?	?	5857 54
953-54	BLW1-67-K28-Christensen (AA1)		2360 12	756 38	316 98	2301 72	5735 20
955-75	BLW1-70-K28-		2360 12	756 38	316 98	2245 80	5679 28
976-79	Brill 02-67-K6-		2360 12	858 04	316 98	2301 72	5836 86

National® Brand 45-606 Eye-Ease® 45-306 2 - Pack Made in USA

Passenger Equipment
Original Cost Per Car
1-1-22

	Initials	Date
Prepared By		
Approved By		

Car No's.	Equipment	Body	Trucks	Air Brake Equipment	Electrical Equipment	Total Cost
980	Brill 02-70-K6-Christensen (AA1)	2360 12	858 04	316 98	2245 80	5780 94
981-87	BLW 1-70-K28- 〃 〃	2360 12	756 38	316 98	2245 80	5679 28
988-91	〃 〃 〃 〃 〃	2374 50	756 38	316 98	2245 80	5693 66
992	Brill 02- 〃 〃 〃 (AA2)	2364 17	869 70	327 19	2245 80	5806 86
993	BLW 1-203- 〃 〃 〃	2368 17	774 93	327 19	2156 68	5626 97
994-1031	Brill 04-70-K28- 〃 〃	2368 17	999 79	327 19	2115 68	5810 83
1032-41	〃 〃 〃 〃 〃	2368 17	992 49	327 19	2115 68	5803 53
1042 }	BLW 1- 〃 〃 〃 〃	3693 77	774 42	407 89	2115 68	6991 76
	Confused with 1092? Same as 1043-52?	2373 81	765 43	266 57	2115 68	5521 49
1043-52	BLW 1-70-K28-Christensen (AA2)	2373 81	765 43	266 57	2115 68	5521 49
1053-67	〃 〃 〃 〃 〃	2373 81	765 43	266 57	2245 80	5651 61
1068-87	〃 〃 〃 〃 〃	2373 81	765 43	266 57	2115 68	5521 49
1088-91	〃 〃 〃 〃 〃	2359 43	765 43	266 57	2115 68	5507 11
1092 }	〃 〃 〃 〃 〃	2548 51	750 11	266 80	2115 68	5681 10
	Confused with 1042? See line 8	3693 77	774 42	407 89	2115 68	6991 76
	As Dbl. Deck I calculated	3874 11	774 42	347 50	2115 68	7111 71
1093-1107	BLW 1-70-K28-Christensen (AA2)	2479 04	750 11	266 80	2115 68	5611 63
1112-21	BLW 2-73-C6- CP21C	3027 94	736 83	299 57	4639 55	8703 89
1122-23	〃 〃 〃 -Christensen (AA2)	3027 94	736 83	289 59	4639 55	8693 91
1124-42	BLW 1-70-K28A-Christensen	2487 71	760 84	273 26	2067 60	5589 41
1143-44	BLW 1-70-K28-A- 〃 (AA2)	2487 71	760 84	273 26	2067 60	5589 41
1145	BLW 2-73-C6- CP21C DD	4786 69	698 63	245 28	4473 29	10203 89
1146	BLW 4-73-C6- CP21C	3788 68	916 83	283 34	4513 21	9502 06
1147-55	BLW 4-73-C6- CP21C	3572 15	916 83	283 34	* 4513 21	9285 53
1156-63	BLW 4-73-C6- CP21C	3560 72	916 83	283 34	* 4473 29	9234 18
*	BLW 4-216-K43F2- CP21C	Winter assignment			* 2423 93	{ 7196 25 7184 82
1164-65	BLW 4-216-K37-Christensen (AA2)	3434 31	916 83	273 06	2423 93	7048 13
1166-82	〃 〃 〃 〃 〃	3007 03	916 83	277 61	2423 93	6625 40
1183-85	BLW 5-70-K37- 〃 〃	3007 03	736 83	277 61	1973 32	5994 79
1186-88	〃 〃 〃 〃 〃	2788 68	736 83	270 33	1973 32	5769 16
1189-92	〃 〃 〃 〃 〃	2777 65	720 —	270 33	1973 32	5741 30
1193-95	BLW 1-70-K28B- 〃 〃	2777 65	732 25	270 33	1973 32	5753 55
1196	BLW 1-70-K28B- CP21	2627 25	690 91	245 28	1951 43	5514 87
1197	〃 〃 〃 〃	2612 87	690 91	245 28	1951 43	5500 49
1198-1211	BLW 5-70-K28B- 〃	2612 87	720 —	245 28	1951 43	5529 58
1213-17	〃 〃 〃 〃	2612 87	720 —	248 23	1951 43	5532 53
1218-20	〃 〃 〃 〃	2596 04	736 83	248 23	1951 43	5532 53
1221-25	〃 〃 〃 〃 }	2730 25	747 59	248 23	1951 43	5677 50
1226-30	〃 〃 〃 CP21C }					
1233	〃 〃 〃 〃	2730 25	747 59	248 23	1944 73	5670 80

Passenger Equipment
Original Cost Per Car
1-1-22

	Initials	Date
Prepared By		
Approved By		

Car No's.	Equipment	1	2 Body	3 Trucks	4 Air Brake Equipment	5 Electrical Equipment	6 Total Cost
1235-40	BLW5-70-K28B	CP21C	273025	73683	24823	194473	566004
1241-45	〃 〃 〃	〃	274472	74759	24806	195143	569180
1246-54		〃	279055	74759	24823	194473	573110
1255-56 1258-59	BLW4-216-K43F2	〃	294482	91683	26026	WINTER 240204	WINTER 652395
1257	BLW4-73-C6	〃	294482	91683	26026	445067	857258
1260	〃 〃 〃	〃	295920	91683	26026	463955	876146
1261-65		〃	295920	91683	26026	395271	807462
1266-75	BLW5-70-K28B	〃	262528	74759	26026	195008	558321
1276-86	〃 〃 〃	〃	258278	74759	26026	195008	554071
1287	BLW5-216-K28B	〃	255770	74757	26083	240206	596816
1288	〃 - 〃 -K37	〃					
1289	〃 -213- 〃	〃	258556	74702	26083	259125	618466
1290	〃 〃 〃	〃	261960	74759	26026	259125	621870
1291-95	BLW5-213-K37A	〃	240696	73683	26026	277808	618213
1296-1309	〃 〃 〃	〃	240522	73683	26026	277808	618039
1310	TC5-213-K37A	〃	266307	70063	26026	277940	640336
1311-34	〃 〃 〃	〃	264860	70063	26026	277940	638889
1335-59		〃	233914	70063	26026	275433	605436
1360-70	〃 〃 K37	〃	241115	72188	26026	267318	606647
1371-75	BLW4-216-K37	〃	241115	91683	26026	248397	607221
1376-79	TC5-216-K37	〃	241115	72188	26026	248397	587726
1380-87	TC6-216-K37	〃	221787	72629	26026	258422	578864
1388-1404	〃 〃 〃	〃	220933	72629	26026	258422	578010
1405-21		〃	221333	71330	26715	256447	575825
1422-24		AA6	221333	71330	26120	256447	575230
1425-27		〃	235947	71330	26120	256249	589646
1428-40		〃	235947	72867	26120	256249	591183
1441-49		〃	234902	72867	26120	256249	590138
1450-52		〃	225114	77229	26120	251489	579952
1453-74 1476-79		〃	224810	77229	26120	251489	579648
1475	TC5-216-K37	〃					
1480-81	TC8-216-K37	〃	224810	74598	26120	251489	577017
1482-96	〃 〃 -K37C	CP27C	232842	74598	23294	257846	588580
1497-1506	〃 〃 〃	〃	232842	76031	24422	245132	578427
1507-16		〃	226959	76031	24422	252117	579529
1517-29		〃	226959	76031	23294	252117	578401
1530	TC9-200-K37C	〃	226959	69286	23294	182905	502444
1531	TC8-216-K37C	〃	226959	76031	23294	252117	578401
1532-53	〃 〃 〃	〃	222126	76031	23294	252523	573974
1554	〃 〃 〃	CP25	222126	76031	21214	252523	571894

National® Brand 45-606 Eye-Ease® 45-306 2-Pack Made in USA

Passenger Equipment
Original Cost Per Car
1-1-22

	Initials	Date
Prepared By		
Approved By		

Car No's.	Equipment	1	2 Body	3 Trucks	4 Air Brake Equipment	5 Electrical Equipment	6 Total Cost
1555-56	TC8-216-K37C	CA25	223710	76031	19994	252523	572258
1557-63	〃 〃 〃	〃	223886	76031	19994	252641	572552
1564-66	〃 〃 〃	〃	244180	76031	19994	254672	594877
1567-73	〃 〃 〃	〃	223886	76031	19994	252641	572552
1574	TC8-200-K37C	〃	223886	76031	19994	183420	503331
1575-81	〃 -203- 〃	〃	223886	76031	19994	199760	519671
1582-1600	〃 〃 〃	〃	244106	76031	19994	201791	541922
1601-02, 06, 08, 10-31	〃 〃 〃	〃	244106	83451	19994	201791	549342
1603-05, 07, 09	TC8-216-K37C	〃	244106	83451	19994	254672	602223
1632-35	TC8-203-K37	〃	244106	83451	19994	201791	549342
1636-39, 59, 61	〃 〃 〃	〃	251023	83451	19994	199314	553782
1640-49	〃 〃 〃	〃	251023	83451	19994	215418	569886
1650-52, 56-58, 60	TC8-213-K37	〃	251023	83451	19994	258402	612870
1653-55	TC8-203-K37	〃	251023	83451	19994	201880	556348
1662-65 1675	TC8-213-K37	〃	251576	69286	19994	258402	599258
1666-68	TC8-216-K37	〃	251576	69286	19994	252195	593051
1669	TC8-213-K37	〃	251576	83451	19994	258402	613423
1670-72	TC8-216-K37	〃	251576	76031	19994	252195	599796
1673	TC8-213-K37	〃	251576	76031	19994	258402	606003
1674, 76-84	TC8-216-K37	〃	251576	69286	19994	239481	580337
1685	TC9-200-K43F2	〃 Data Sheet TC8-216-K37	251576	76031	19994	182983	530584
1686-1712, 14-15, 17-18,	〃 〃 〃	〃 }	230509	69286	19994	183544	503303
20-21, 23, 25-39							
1713	〃 〃 〃	〃	262165	69286	21498	184404	537353
1716, 19, 22, 24	〃 〃 〃	〃	275609	69286	21498	183691	550084
1740-63, 73-75	〃 〃 〃	〃	227828	69286	19994	183544	500652
1764-72	〃 〃 〃	〃	227828	64561	19994	183544	495927
1776-77	TC8-203-K43F2	〃	230441	76031	21498	200558	528528
1778-80, 88	TC8-216-K43F2	〃	230441	76031	21498	253439	578409
1781-84	TC9-200-K43F2	〃	230441	69286	21498	212967	534192
1785-86	TC9-216-K43F2	〃	230441	69286	21498	253439	574664
1787	〃 -200- 〃	〃	230441	69286	21498	255247	576472
1789-92	〃 〃 〃	〃	272928	64561	24304	212431	574224
1793-1804	〃 〃 〃	〃	259484	85347	21498	212317	578646
1805-20	〃 〃 〃	〃	263670	85347	21498	224817	595332
1821-35	〃 〃 〃	〃	263670	85357	21498	212307	582832
1836-38	〃 〃 〃	〃	263670	85347	28389	184404	561810
1839-40	〃 〃 〃	〃	263670	85347	21498	233670	604185
1841-47	〃 〃 〃	〃	263670	85347	25207	255424	629648
1848-51	〃 〃 〃	〃	263614	85347	28389	184404	561754

National® Brand 45-606 Eye-Ease® 45-306 2 - Pack Made in USA

Passenger Equipment
Original Cost Per Car
1-1-22

	Initials	Date
Prepared By		
Approved By		

Car #'s	Equipment	1	2 Body	3 Trucks	4 Air Brake Equipment	5 Electrical Equipment	6 Total Cost
1852-54	TC9-200-K43F2	CP25	2770 58	853 47	283 89	2329 57	6237 51
Two-Car Trains:							
2000-01	TC11-258-K43F2	CP27	11679 75	3741 35	441 48	3000 39	18862 97
2002-03	TC11-264-K43F2	CP25	18302 38	2890 24	567 78	6881 70	28642 10
Trailers							
200-24	TC11		1824 52	1453 64	–	–	3278 16
225	TC11	See 952	2319 29	1445 12	–	–	3764 41

National® Brand 45-606 Eye-Ease® 45-306 2-Pack Made in USA

Service Equipment
Original Cost Per Car
1-1-22

-1-

	Initials	Date
Prepared By		
Approved By		

Car #	Equipment	1	2 Body	3 Trucks	4 Air Brake Equipment	5 Electrical Equipment	6 Total Cost
1st 2	Bemis - WP50 - K6	AA1	1800 —	833 91	385 91	3424 89	6444 71
	(Should be Brill 01-67-K6)						
3	TC - 57 - K14	AA1	717 31	816 07	329 99	2937 25	4800 62
4	〃 〃 〃	〃	1487 59	964 —	329 99	2937 25	5718 83
5	〃 〃 〃	〃	994 90	816 07	329 99	2937 25	5078 21
6	arch Bar ———	—	1250 —	Included in Body	—	103 72	1353 72
7-10	TCWC - 70 - K6	AA2	960 90	708 32	329 99	2141 12	4140 33
11	TCWC - 57 - K14	〃	866 43	626 21	366 20	2937 25	4796 09
12	〃 〃 〃	〃	838 30	626 21	366 20	2937 25	4767 96
13	〃 - 70 - K6	〃	838 30	626 21	366 20	2141 12	3971 83
14	〃 〃 〃	〃 Sand Car	1412 37	626 21	366 20	2141 12	4545 90
		1-1-20					3971 83
15	TCWC - 70 - K6	AA2	902 37	626 21	366 20	2141 12	4035 90
16	〃 〃 〃	〃 Sand Car	1457 92	626 21	366 20	2141 12	4591 45
		1-1-20					4017 38
17	TCWC - 70 - K28	CP21	1398 06	708 32	285 86	2141 12	4533 36
18	〃 〃 〃	〃 Sand Car	1935 64	708 32	285 86	2141 12	5070 94
		1-1-20					4496 87
19	TCWC - 70 - K28	CP21 ?	1933 99	708 32	285 86	2141 12	5069 29
		1-1-20					4469 29
20	TCWC - 57 - K6	AA1	2459 48	708 32	329 99	2937 25	6435 04
21	BLW4 - 216 - K37	CP21	5783 31	880 —	285 86	2427 48	9376 65
22	BLW4 - 73 - C6	AA1	2247 68	880 —	329 99	4502 55	7960 22
23-24	〃 〃 〃	CP21 Dbl End	3575 73	880 —	285 86	5394 43	10136 02
26-28	Peckham - WP - K11	—	500 —	250 —	—	1870 89	2620 89
29-30	BLW4 - 73 - C6	CP21 Dbl End	3308 —	910 76	356 12	5394 43	9969 31
31-32	〃 〃 〃	〃 〃	3308 —	910 76	356 12	5353 78	9928 66
33	TC - 57 - K6	AA1	997 07	708 32	329 99	2937 25	4972 63
34	BLW4 - 57 - K14	AA2	2832 77	910 76	372 64	2937 25	7053 42
35	Special - 67 - K11	—	5373 41	215 40	—	1438 —	7026 81
36	BLW4 - 73 - C6	CP21	3058 04	910 76	356 12	4476 11	8801 03
37-38	BLW4 - 73 - C6	AA2	3058 04	910 76	400 25	4476 84	8845 89
39	— One 67 - K11	—	2100 —	Included in body	—	1004 76	3104 76
40	〃 〃 〃	—	2100 —	〃	—	1034 51	3034 51
43	TC7 - 216 - K37	AA6	4019 75	755 46	279 55	2427 48	7482 24
44	〃 〃 〃	〃	4208 17	755 46	278 04	2427 48	7669 15
45	〃 〃 〃	〃	4019 75	755 46	278 99	2427 48	7481 68
46-47	〃 〃 〃	AA1	1117 79	645 70	264 99	2427 48	4455 96
48	〃 〃 〃	〃	1298 23	645 70	264 99	2427 48	4636 40
49	〃 〃 〃	AA2	2533 90	755 46	264 99	2427 48	5981 83

National® Brand 45-606 Eye-Ease® 45-306 2 - Pack Made in USA

Service Equipment
Original Cost Per Car
1-1-22

	Initials	Date
Prepared By		
Approved By		

Car #	Equipment	1		2 Body	3 Trucks	4 Air Brake Equipment	5 Electrical Equipment	6 Total Cost
50	TC7-70-K37	CP25		5220 01	755 46	229 93	2129 63	8335 03
51-53	〃 〃 〃	〃	?	1407 17	805 42	229 93	1975 52	4572 15
			1-1-20					4418 04
54	TC7-70-K37	CP25	?	1398 13	805 42	229 93	1975 52	4563 11
			1-1-20					4409 –
55	TC7-70-K37	CP25	?	1464 13	805 42	229 93	1975 52	4629 11
			1-1-20					4475 –
56	TC7-70-K37	CP25		1407 17	805 42	229 93	1975 52	4418 04
57	–	–		5056 92	–	–	–	5056 92
58	TC7-67-K28	AA2		2810 73	805 42	264 99	2327 16	6208 30
59	BLW4-57-K37	CP25		2615 09	910 76	229 93	2937 25	6693 03
60	–	–		4388 35	–	–	–	4388 35
61	TC7-67-K28	AA2		2807 03	628 78	264 99	2327 16	6027 96
62	BLW1-WP-K6	AA1		1060 26	910 76	264 99	3424 89	5660 90
63-69	Brill01-WP-K6	AA1		1060 26	833 91	264 99	3424 89	5584 05
70	Bemis – –	–		724 54	–	–	250 –	974 54
71	– – –	–		1914 08	Part of Body	–	–	1914 08
72	TC-57-K14	AA2		1730 58	879 54	264 99	2937 25	5812 36
73	–	–		5467 95	–	–	–	5467 95
74	–	–		6581 60	–	–	–	6581 60
75-78	BLW2-73-C6	AA6		3743 –	720 –	348 75	4476 84	9288 59
79-82	〃 〃 〃	〃		3743 –	720 –	348 75	4502 55	9314 30
A 13	Bemis-WP-K6	AA1		1111 60	500 –	329 99	3103 72	5045 31
A 14	Brill01-WP-K14	〃		1101 32	833 91	329 99	3103 72	5368 94
Private	Brill01- not listed	not listed		2500 –	833 91	284 94	2937 25	6556 10
84	Special ST –	–	23-9	300 –	215 40	–	–	515 40
85	〃	〃	23-9	300 –	215 40	–	–	515 40
86	〃	〃	17-9	400 –	215 40	–	–	615 40
87	〃	〃	23-9½	300 –	215 40	–	–	515 40
88	〃	〃	23-9½	300 –	215 40	–	–	515 40
89	〃	〃	16-1	210 –	215 40	–	–	425 40
90	〃	〃	Dirt & ash Car	210 –	215 40	–	–	425 40
Purchased 1927								
83								20174 94

Authorization #3806 25 cars
2006-2030 1927-28

	Initials	Date
Prepared By		
Approved By		

© WILSON JONES COMPANY G7504 ColumnWrite ® MADE IN U.S.A.

	Labor	Material	Total	Per Car
Bodies	56822	78499	135321	5413
Trucks	7885	25602	33487	1339
Electrical Equipment	2444	73493	75937	3038
Airbrake Equipment	4702	18932	23634	945
	71853	196526	268379	10735
Authorization 9322 Engineering and Pattern Work			6046	242
Authorization 4514 Bill of LWNESC Co.			1500	60
			275925	11037

4 Cars 1-4 1924-25

	Labor	Material	Total	Per Car
Bodies	17170	7563	24733	6183
Trucks	3085	3865	6950	1738
Motors & Controllers	561	11288	11849	2962
Airbrake Equipment	303	1245	1548	387
	21119	23961	45080	11270
3 spare trucks	1157	1450	2607	
1 set (4) spare motors	–	2607	2607	
	1157	4057	5214	
			50294	

Two-car Train 2000-2000A 4-1916

	Total
Engineering Expense	2690
Bodies	9249
46E258 Motors	2921
Airbrakes (old equipment)	14
Trucks (special)	4824
	19698

National® Brand 45-604 Eye-Ease® 45-304 2 - Pack Made in USA

Actual Costs Per Car

	Initials	Date
Prepared By		
Approved By		

	1 900-949 1902	2 950-991 1903	3 992-1041 1904	4 Track Dept. 1902
Passenger Cars				
Body	1756 88	1722 —	1312 56	
Wire and Mount	293 04	395 55	400 19	
Heat	154 86	143 97	136 33	
Subtotal	2204 78	2261 52	1849 08	
Motors	2223 45	2103 12	2068 11	
Trucks	692 03	602 60	815 48	
Air Brakes	333 18	316 98	327 36	
Total	5453 44	5284 22	5060 03	
	①	②	③	
Work Cars				
Work Order 8261 1 car				787 —
8262 1 car				797 —
8271 2 cars				1581 —

Equipment

① Brill02/46E67/K-6

② Brill03/46E67/K-6

③ Brill04/46E70/K-28

TCRT

Passenger Cars per W. C. Gilman Report.

1-1-44

	Initials	Date
Prepared By		
Approved By		

© WILSON JONES COMPANY G7504 ColumnWrite ® MADE IN U.S.A.

Qty	Car Numbers	1 Date Built	2 Date Rebuilt Front Exit	3 Date Rebuilt 1/2 Man	4 Original Cost per Car
1	1129	1905	–	DE 1932	7175 –
1	1136	1905	–	–	6200 –
51	1166-78, 80-1201, 03, 05-11, 13-20	1906	–	1936	8432 –
29	1221-29, 33, 35-53	1907	–	1935	7271 –
1	1230	1907	–	DE 1931	6295 –
26	1254, 66-90	1907	1922-24	–	6295 –
7	1291-92, 1329-33	1908	1922-24	–	7069 –
36	1293-1328	1908	1922-24	1931	8044 –
46	1334-79	1909	1922-24	–	6705 –
39	1380-81, 83, 99-1401, 03-07, 09-14, 1416, 18-19, 21-23, 26-29, 31-32, 34-36, 1438-39, 42-45, 47	1910	1922-24	–	6383 –
31	1382, 84-98, 1402, 08, 15, 17, 20, 24-25, 1430, 33, 37, 40-41, 46, 48-49	1910	1922-24	1935	7359 –
17	1452-53, 55-61, 63, 71-72, 74, 76-78, 81	1911	1922-24	–	6425 –
15	1450-51, 54, 62, 64-70, 75, 79-80	1911	1922-24	1934	7401 –
⊛ 14	1483, 84, 86-87, 90-91, 93, 1500, 14, 1516, 42, 47, 55, 63	1912	1922-24	⊛ –	6363 –
⊛ 86	1482, 85, 88-89, 92, 94-99, 1501-13, 1515, 17-41, 43-46, 48-54, 56-62, 1564-81	1912	1922-24	1933-35	7339 –
72	1582-1609, 11-28, 30-55	1913	1922-24	1933-35	7646 –
82	1656-73, 75-98, 1700-39	1914	1922-24	1932-33	6941 –
49	1740-88	1915	1922-24	1932-33	6542 –
34	1789-1822	1916	1922-24	1932-33	7390 –
32	1823-54	1917	1922-24	1932-33	7667 –
2	2000-01	1917 (sic)	–	1932	15246 –
2	2002-03	1921	–	1932	16981 –
4	1-4	1925	–	–	13309 –
2	2004-05	1926	–	1930-32	13333 –
25	2006-30	1928 (sic)	–	1930-32	13333 –
704					

⊛ This is in error. 5 cars 1487, 90, 91, 1500, 16 were rebuilt in 1942

Notes:

6 1202, 04, 12, 31, 32, 34 had been sold to Duluth St Ry.

5 1179, 1610, 29, 74, 99 had been destroyed in accidents.

11 1255-65 were High-Speed Suburban Cars, previously disposed of.

	Initials	Date
Prepared By		
Approved By		

© WILSON JONES COMPANY G7504 ColumnWrite ®

MADE IN U.S.A.

1 2 3 4

TCRT
Work Equipment
1-1-44

3-5, 7-11, 13-19, 21-24, 26-33, 35-40, 43-70, 72-83, 94-96	76 cars
20 and one Dump Trailer & Steam Station (Replacing Gondola 6)	2 cars
Shop Trailers 84-87, 89, 91-93	8 cars
	86 cars
Numbers 2-96:	95 cars
Sold: 25	(1 car)
Scrapped: 2, 12, 34, 41-42, 71, 88, 90	(8 cars)
	86 cars

TWIN CITY LINES

PCC CAR COSTS

BASIC COST

Year	Car Numbers	Qty.	Basic Cost	Cost per Car	
1945	299	1	$ 19,919.65	$19,919.65	(1)
1946	300-339	40	821,557.45	20,538.94	(2)
1947	340-389	50	1,077,350.13	21,547.00	
1949	390-439	50	1,434,228.13	28,684.56	(3)
			$3,353,055.36		

These figures apparently were the costs incurred directly with St. Louis Car Co. The additional costs incurred by Twin City Lines were not included.

(1) A notation said cost of freight was included. On the reverse side of the Mechanical Dept. record card for 299 the following figures had been typed:

Body, including installation	$ 9,980
Trucks	5,000
Electrical Equipment and Motors	5,200
Electric Brakes	734
Air Compressor and Appurtenances	500
Total FOB St.Louis	$21,414

Perhaps this was the original price quotation, the final negotiated price being the lower figure.

(2) Authorization #9130 covering the purchase of these cars is the only authorization with a detailed cost itemization. This is summarized on page 4.

(3) The amount of $1,433,202.50 was financed by Northwestern National Bank of Minneapolis.

TWIN CITY LINES
AUTHORIZATION 9130
PURCHASE OF PCC CARS 300-339

St. Louis Car Co. Costs

40 Car Bodies	$379,460.10
Karpen Seats (stainless steel backs; leather upholstery)	40,484.00
Door Switch Assemblies (includes door engines), National Pneumatic Co.	14,303.83
Stainless Steel Stanchions, Fare Box Stands, and Stainless Steel Window Guards, Excel Company	11,600.52
Electric Heaters, Consolidated Car Heating Co.	9,662.66
Car Lighting Fixtures	6,040.07
Destination Signs, Hunter	4,341.81
Battery Carrier and Battery, Willard	2,212.39
Mirrors, Angell Specialty Mfg. Co.	1,007.52
Psgr. Signal Buzzers and Switches, Electric Service Mfg. Co.	248.15
Car Body Subtotal	469,361.05
Motors, General Electric and Westinghouse	207,194.54
Trucks, Clark Equipment Co.	148,975.19
Mechanical and Electrical Subtotal	356,169.73
St. Louis Car Co. Total	825,530.78

Transit Supply Co. Costs

Labor, to check and service the cars	1,559.57
Conductor's supply boxes and money boxes	975.92
Transfer holders, money changer holders, brackets and trash bags, broom holders and scraper holders	532.16
Long Trolley Poles, Harps and Wheels	335.28
Operator's Tools	165.46
Miscellaneous Car Body Materials	133.49
Car Body Subtotal	3,701.88
Labor to build unloading platform (miscellaneous materials)	189.82
Labor to unload cars	226.36
Unloading Cost Subtotal	416.18
Engineering and Superintendence	
Royalty	5,000.00
Labor: Special and Semi-Special Payroll	1,525.35
Labor: Wage Adjustment	365.16
Miscellaneous (Comptroller)	762.92
Engineering and Superintendence Subtotal	7,653.43
Transit Supply Co. Total	11,771.49
Grand Total ($20,932.56 per car)	837,302.27

Spare Parts		
One set of Trucks with G.E. Motors and One set of Trucks with Westinghouse Motors:		
Trucks (four)	$8,140.91	
Motors (eight)	5,760.00	
One spare Westinghouse Motor	720.00	
Eight Electric Shoe Brakes	984.00	
Eight Operator's Mechanical Pull Rods	600.00	
		16,204.91
Authorization Total		$853,507.18

TWIN CITY LINES
COST OF SELLING 141 PCC CARS
1953-1954

1953 FINANCIAL RECORDS

		Original Cost	Salvage(1)	Net Cost
PSCT	30 cars	$ 692,744.75	$ 300,000	$ 392,744.75
SHRT	20 cars	449,943.20	260,000	189,943.20
Mexico	91 cars	2,325,740.04	1,137,900	1,187,840.04
Totals		3,468,427.99	1,697,900	1,770,527.99

(1) Salvage = Selling Price:

PSCT	$10,000 per car
SHRT	13,000 per car
Mexico	12,500 per car

Disposition of the Net Cost

		Charged to Depreciation Reserve	Unallocated Depreciation	Charged to Earned Surplus
PSCT	30 cars	$161,326.60	$101,521.46	$129,896.69
SHRT	20 cars	100,596.40	62,418.95	26,927.85
Mexico	91 cars	454,610.08	317,176.20	416,053.76
Totals		716,533.08	481,116.61	572,878.30

1954 FINANCIAL RECORDS

Cost of Removal Charged to Earned Surplus:

PSCT	Repair	$ 2,733.44
SHRT	Repair, Install Multiple Unit Equipment and Repaint	21,669.21
Mexico	Repair and Repaint	53,930.85
Total		78,333.50

SUMMARY

Original Cost	$3,468,427.99
Actual Depreciation to date of shipment	- 716,533.08
Book Value	2,751,894.91
Selling Price	-1,697,900.00
Loss on initial sale	1,053,994.91
Removal Cost	78,333.50
Total Loss	1,132,328.41

SALE OF PCC CARS TO MEXICO CITY

Correct Figures

1 car @ $ 3,900 (#299)		$ 3,900.00
90 cars @ $12,600		$1,134,000.00
Subtotal		$1,137,900.00
Repair of 91 cars, cost each:		
Truck Repairs	$374.98	
Electric Equipment Repairs	$148.50	
Carbody Repairs and Repaint	$450.00	
	$973.48	$ 88,586.68
Loading Cost, each	$125.00	$ 11,375.00
Subtotal		$ 99,961.68
Total		$1,237,861.68

Terms of Payment

Letter of Credit	down payment = 20% of $1,137,900	$ 227,580.00
	100% of repairs and loading	$ 99,961.68
		$ 327,541.68
Notes Payable(*)	80% of $1,137,900	$ 910,320.00

(*) 10 equal semi-annual installments. Interest rate 4%. First note due 6-1-54. One each of the remaining nine due every 6 months starting 12-1-54 and ending 12-1-58.

As of 1954 the Mexican Bank discounted the first two notes ($182,064) at 9%.